System Function Commands-2
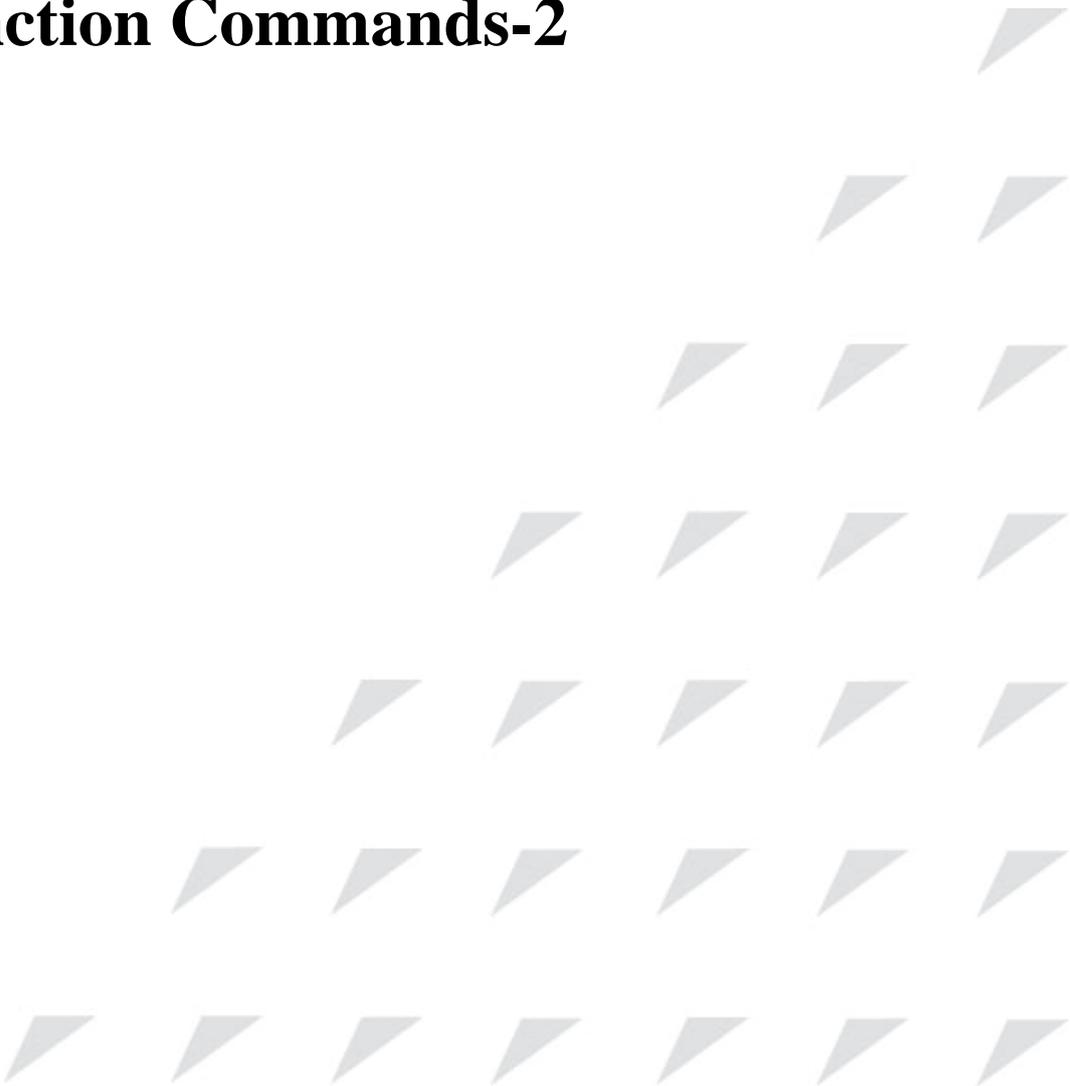
CONTENTS

Chapter 1   System Commands

1.1 chinese

[Function]

Show the command line help information in Chinese.

[Command Format]

chinese

[Default]

Show the command line help information in English.

[Command Modes]

User EXEC, Privileged EXEC, Global configuration mode, VLAN configuration exec, interface/range configuration mode; router protocol configuration mode; common user; Privileged EXEC; remote management mode; remote interface mode; user diagnostic mode

[Command Executing Instruction]

Display the help information in Chinese. Help users to get accurate information in Chinese.

[Example]

Show the command line help information in Chinese:

Raisecom(config)# **chinese**

[Related commands]

Commands	Description
English	Display the command line help information in English.

1.2 clear

[Function]

Clear all the information on the screen.

[Command Format]

clear

[Command Modes]

User EXEC, Privileged EXEC, Global configuration mode, VLAN configuration mode, interface/range configuration mode, router protocol configuration mode; common user, and Privileged EXEC; remote management mode; remote interface mode; user diagnostic mode.

[Command Executing Instruction]

Clear the shown information on the screen and the later information to be shown from the 1st line.

[Example]

Clear the shown information on the screen:

Raisecom> **clear**

1.3 clock set

[Function]

Use **clockset** to modify system data and time.

[Command Format]

clockset *<0-23> <0-59> <0-59> <2000-2099> <1-12> <1-31>*

[Parameter]

<0-23>: hour

<0-59>: minute

<0-59>: second

<2000-2099>: year

<1-12>: month

<1-31>: date

[Command Modes]

Privilege EXEC and privilege users

[Command Executing Instruction]

Use **clockset** to modify system date and time. The configured data and time information will always be saved in NVRAM of the system and keep effective no matter power is on or off.

[Explanation of command execution echo]

Set successfully

No 30th or 31st in Feb. in leap year.

No 29th, 30th or 31st in Feb.

No 31st in the month.

[Example]

Change system time to be 8:30:00 on Sep 30th, 2003:

Raisecom# **clockset** *8   30   0   2003 9 30*

[Related commands]

Commands	Description
show clock	Show the current time of system.

1.4 clock summer-time

[Function]

Enable summer time configuration.

[Command Format]

clock summer-time *{enable | disable}*

[Parameter]

enable: enable summer time;

disable: disable summer time.

[Default]

Summertime disable.

[Command Modes]

Privilege exec; Privileged EXEC

[Explanation of command execution echo]

Set successfully

Set unsuccessfully

[Example]

Enable summer-time switch:

Raisecom#**clock summer-time** *enable*

[Related commands]

Commands	Description
show clock	Show clock information.
clock summer-time recurring	Set the starting time and end time of summer clock.

1.5 clock summer-time recurring

[Function]

Configure the starting time and the ending time of summertime recurring.

[Command Format]

clock summer-time recurring *{<1-4>| last} { sun | mon | tue | wed | thu | fri | sat } {<1-12> | MONTH } <0-23> <0-59> {<1-4> | last} { sun | mon | tue | wed | thu | fri | sat } {<1-12> | MONTH } <0-23> <0-59> <1-1440>*

[Parameter]

<1-4>: summer time starting from which week

last: summer time starting from the last week of the month

week day: summer time starting from what date of the week (Sun, Sat, etc.)

<1-12>: summer time starting from which month

MONTH: input the starting month

<0-23>:summer time starting hour

<0-59>: summer time starting minute

<1-4>: summer time ending at which week of the month

last: summer time ending at the last week

week day: summer time ending at which day of the week (Sun, Sat, etc.)

<1-12>: summer time ending month

MONTH: input the ending month

<0-23>: summer time ending hour

<0-59>: summer time ending minute

<1-1440>: summer time recurring minute

[Command Modes]

Privilege exec, Privileged EXEC

[Command Executing Instruction]

This command is used to set the starting time, the ending time and recurring of summer time. The format for starting time and the ending time is: xx month, xx week (or the last week), xx hour and xx minute.

[Explanation of command execution echo]

Set successfully

Set unsuccessfully

[Example]

Set summer time as start from 2 o'clock on the second Sunday of April every year and end at 2 o'clock on the second Sunday morning of Septmeber every year, adjust the clock one hour faster during this time range:

Raisecom# **clock summer-time recurring** *2* **sun** *4 2 0 2* **sun** *9 2 0 60*

[Related commands]

Commands	Description
clock summer-time	Enable summer time function
show clock	Show clock information

1.6 clock timezone

[Function]

Configure time zone.

[Command Format]

clock timezone *{+/-} <0-11> <0-59>*

[Parameter]

+: East hemisphere time zone

-: West hemisphere time zone

<0-11>: time zone recurring hour

<0-59>: time zone offset minute

[Default]

The default time is Beijing local time, which is 8 hours offset to east.

[Command Modes]

Privilege exec; Privileged EXEC

[Explanation of command execution echo]

Set successfully

[Example]

Set the time-offset direction to West hemisphere, offset time is 5 hours and 40 minutes.

Raisecom#**clock timezone** – *5 40*

[Related commands]

Commands	Description
show clock	Show the clock information.

1.7 debug

[Function]

Set debug command enable modular switch, no form of the command used to disable the switch.

[Command Format]

[no] debug *(all | system | ospf | rip | gvrp | igmp-snooping | mvr |cli | driver | dhcp | snmp | stp | lacp | rcmp | rndp | rtdp |radius | dot1x | qos | rmon | sntp | telnet | arp | ip |config)*

[Parameter]

all: debug all functions

arp: arp debug

cli: cli debug

config: system config information (can be write into system flash)

dhcp: dhcp debug

driver: driver debug

gvrp: gvrp debug

igmp-snooping: igmp-snooping debug

ip: ip debug

lacp: lacp debug

mvr: mvr debug

ospf: ospf debug

qos: qos debug

radius: radius debug

rip: rip debug

rmon: rmon debug

rndp: rndp debug

rtdp: rtdp debug

snmp: snmp debug

sntp: sntp debug

stp: stp debug

system: system debug

telnet: telnet debug

[Default]

Config modular is enabled.

System modular is enabled.

Others debug functionalities are disabled.

[Command Modes]

Privileged EXEC and Privileged EXEC

[Command Executing Instruction]

Use this command to enable one or all modulars debug functionalities. All indicates all modulars, config modular indicates the modular that had already memorized in system flash file.

[Example]

Enable debug function of all modulars:

Raisecom#**debug** *all*

[Related commands]

Commands	Description
logging	Configure system log.

1.8 dir

[Function]

Use **dir** to show flash file storage system.

[Command Format]

dir

[Command Modes]

Privileged EXEC; Privileged EXEC.

[Example]

Use **dir** to show flash file storage system:

Raisecom#**dir**

The below information is displayed when **dir** is operated:

size   date   time   name

----

32   Dec-31-2000   00:00:14   durable.

32   Dec-31-2000   00:00:14   durable

[Related commands]

Commands	Description
write	Save the current system config
erase	Delete the designated file in falsh
download	Download system config file or start-up file
upload	Upload system config file or start-up file

1.9 download

[Function]

Use **download** to download system config file or start-up file to FPGA file to flash file system (available to RC5x1 series device only).

[Command Format]

download *{bootstrap|system-boot|startup-config | fpga} {tftp | ftp}*

[Parameter]

bootstrap: system bootstrap file

system-boot: boot file

startup-config: config file

fpga: FPGA file

tftp: download by tftp protocol

ftp: download by ftp protocol

[Command Modes]

Privileged EXEC and Privileged EXEC

[Command Executing Instruction]

Use **download** to download boot file, config file and FPGA file to flash file system; it can also download bootstrap file to BOOTROM. When the switch is restarted, the downloaded file will execute automatically. This command can be realized with different file transport protocols for example **ftp** protocol and **tftp**. Before using these two protocols, ftp server or tftp server must be set properly and connected to the switch.

[Explanation of command execution echo]

Read error.

Errors occurred when read the server.

Invalid input tftp protocol port

Errors occurred when input tftp protocol port.

Invalid input file name

Errors occurred when input a wrong file name

User name is empty.

FTP user name is empty.

User password is empty!

FTP user password is empty

[Example]

Use FTP protocol to download boot file from FTP server:

Raisecom# **download system-boot** *ftp*

Please input server IP Address:1.0.0.1

Please input FTP User name:test

Please input FTP Password:test

Please input FTP Server File Name:system_boot.Z

Use **tftp** to download boot file from tftp server:

Raisecom#download startup-config tftp

Please input server IP Address:1.0.0.1

Please input TFTP port(default 69):

Please input TFTP Server File Name:start_config.conf

[Related commands]

Commands	Description
Upload	Upload start-up file or boot file.

1.10 enable password

[Function]

Use **enable password** to set the password for access Global configuration mode.

no enable password recover password to default value.

[Command Format]

enable password

no enable password

[Default]

Default password is"raisecom" from User EXEC to Privileged EXEC.

[Command Modes]

Privileged EXEC and privileged user

[Command Executing Instruction]

Use this command to change the user password for entering Global configuration mode.

[Explanation of command execution echo]

Set successfully

Password not same

You have no enough right to change enable password!

Password too long(must no more than 16 chars).

[Example]

Change password for entering Global configuration mode:

Raisecom#**enable password**

[Related commands]

Commands	Description
enable	Access privileged mode from normal mode.
disable	Exit privileged mode to normal mode.

1.11 english

[Function]

Display the command line help information in English.

[Command Format]

English

[Default]

Display the command line help information in English

[Command Modes]

User EXEC, Privileged EXEC, Global configuration mode, VLAN configuration mode, interface/range configuration mode; router protocol configuration mode; common user, privileged user; remote management mode; remte interface mode; user diagnostic mode.

[Command Executing Instruction]

Display the command line help information in English.

[Explanation of command execution echo]

Set successfully.

Command executed successfully.

[Example]

Display the command line help information in English:

Raisecom#**english**

[Related commands]

Commands	Description
Chinese	Show the help information as the format of command-line in Chinese

1.12 erase

[Command Executing Instruction]

Use **erase** to delete the designated file in flash file system.

[Command Format]

erase *[FILENAME]*

[Parameter]

FILENAME: file disgnated in the file system.

[Default]

Delete the current startup_config.conf

[Command Modes]

Privileged EXEC and privileged user

[Command Executing Instruction]

Use **erase** to delete the designated file in flash file system. Delete startup-config.conf file in the system if no file is designated before executing this command.

[Explanation of command execution echo]

Erase current specified file successfully!

Command executed successfully.

Erase current specified file unsuccessfully

Command executed unsuccessfully.

[Example]

Delete 'aaa' file in flash file system:

Raisecom#**erase** *aaa*

[**Related commands**]

Commands	Description
Write	Save the current system config file.

1.13 exit

[**Function**]

Use **exit** to return to previous mode or exit login.

[**Command Format**]

exit

[**Command Modes**]

User EXEC, Privileged EXEC, global configuration mode, VLAN configuration mode, interface/range configuration mode, routing protocol configuration mode, normal user, and privileged user; remote management mode; remte interface mode; user diagnostic mode.

[**Command Executing Instruction**]

Use **exit** in user EXEC and Privileged EXEC mode to exit login.

Use this command in interface/range configuration mode, routing protocol configuration mode to return to previous mode.

[**Example**]

Return to previous mode or exit login:

Raisecom#**exit**

[**Related commands**]

Commands	Description
quit	Return to parent mode or exit login.

1.14 list

[**Function**]

Use this command to show all commands in one mode.

[**Command Format**]

list

[**Command Modes**]

User EXEC, Privileged EXEC, Global configuration mode, VLAN configuration exec, interface/range configuration mode, routing protocol configuration mode; normal user and Privileged EXEC; remote management mode; remte interface mode; user diagnostic mode.

[Command Executing Instruction]

Use this command to show particular parameter of all commands under the mode.

[Explanation of command execution echo]

chinese

clear

enable

english

exit

help

history

list

quit

terminal history <1-20>

terminal time-out <0-65535>

[Example]

Use this command to show all commands in one mode:

Raisecom>**list**

1.15 password

[Function]

Use **password** to change the login password for current user.

[Command Format]

password

[Default]

The default user login password for Raisecom switch series equipments is "Raisecom".

[Command Modes]

Privileged EXEC, privileged user.

[Command Executing Instruction]

Use this command can change login password of current login user.

[Explanation of command execution echo]

Set successfully.

Set unsuccessfully!

Password not same!

Radius user can't change password!

Password is too long (must less than 16 chars)

[Example]

Change the login password for current user:

Raisecom#**password**

Please input password:xxxx

Please input again:xxxx

[Related commands]

Commands	Description
user privilege	Set user popedom.

1.16 quit

[Function]

Use the command to return to previous mode or logout.

[Command Format]

quit

[Command Modes]

User EXEC, Privileged EXEC, Global configuration mode, vlan configuration mode, interface/range configuration mode, router protocol configuration mode; normal user, privileged user ; remote management mode; remte interface mode; user diagnostic mode.

[Command Executing Instruction]

Use the command in priviledged EXEC and user EXEC to quit login state.

Use the command in vlan configuration mode, interface/range configuration mode, router protocol configuration mode to return to previous mode.

[Example]

Return to previous mode or quit login state:

Raisecom>**quit**

[Related commands]

Commands	Description
exit	Return to previous mode or quit login state.

1.17 reboot

[Function]

Use **reboot** to reboot switch.

[Command Format]

reboot

[Command Modes]

Privileged EXEC; privileged user

[Command Executing Instruction]

'Yes' should be entered to confirm the operation when the command is used to reboot switch.

[Example]

Raisecom#**reboot**

Please input 'yes' to confirm:yes

Rebooting ...

1.18 show clock

[Function]

Use **show clock** to show current system time.

[Command Format]

show clock *[summer-time-recurring]*

[Parameter]

summer-time-recurring: show summer time

[Command Modes]

Privileged EXEC, privileged user

[Command Executing Instruction]

Use the command to show current system time and timezone as well as summer time configuration.

[Example]

Show current system time:

Raisecom#**show clock**

Current system time: Sep-30-2003   00:28:07

Timezone offset: +08:00:00

Show summer time configuration: (when summer time configure disable)

Raisecom#**show clock summer-time-recurring**

Current system time: Jan-01-2004   08:39:13

Timezone offset: +08:00:00

Summer time recuuring: Disable

Show summer time configuration: (when summer time configure enable)

Raisecom#**show clock summer-time-recurring**

Current system time: Jan-01-2004   08:40:07

Timezone offset: +08:00:00

Summer time recuuring: Enable

Summer time start: week 02 Sunday Apr   02:00

Summer time end: week 02 Sunday Sep   02:00

Summer time Offset: 60 min

[Related commands]

Commands	Description
clock summer-time recurring	Set the starting time and ending time of summer time.
clock summer-time	Summer time enable.
clock timezone	Set the time zone of current time.
clock set	Set the current system time of system

1.19 show running-config

[Function]

Use **show running-config** to show the configuration information of current system.

[Command Format]

show running-config

[Command Modes]

Privileged EXEC, privileged user

[Command Executing Instruction]

Show the configuration information of current system.'!' stands for explanation. Use command **write** to write the configuration information to flash memory.

[Example]

Show the configuration information of current system:

Raisecom# **show running-config**

System current configuration:

!command in view_mode

terminal time-out 65535

!

!command in enable_mode

!

!command in vlan configuration mode

!

!command in port_mode

!

!command in aggregator mode

!

!command in ip interface mode

!

!command in rip_mode

!

!command in ospf_mode

!

!command in config_mode

!

[Related commands]

Commands	Description
show startup-config	Show system startup information
download	Download system configuration file or startup file.
upload	Upload system configuration file or startup file.

1.20 show startup-config

[Function]

Use **show startup-config** command to show startup configuration information that is saved in the system.

[Command Format]

show startup-config

[Command Modes]

Privileged EXEC; privileged user.

[Command Executing Instruction]

Use this command to show startup configuration information that is saved in flash system file; use **write** command to save information for the device or to refresh information by download, or use **erase** command to delete information. Also can save information by uploading.

[Example]

Show startup configuration information that is saved in system:

Raisecom#**show startup-config**

!command in view_mode

!

!command in enable_mode

!

!command in vlan configuration mode

!

!command in port_mode

!

!command in aggregator mode

!

!command in ip interface mode

!

!command in rip_mode

!

!command in ospf_mode

!

!command in config_mode

snmp-server host 20.0.0.1 v2 public udp-port 163snmp

snmp-server host 20.0.0.2 v1 public

!

!NEVER change the NOTATION

!end

[Related commands]

Commands	Description
show startup-config	Show system startup config information.
download	Download system configuration file or startup file.
upload	Upload system config file or start file.
write	Save current system configuration.
erase	Delete designated file in the system.

1.21 show user

[Function]

Use **show user** to show the user information stored in system.

[Command Format]

show user

[Command Modes]

Privileged EXEC; privileged user

[Command Executing Instruction]

Use the command to inspect how many users can login the system. The information of users is stored in usertable.conf. Users can use **erase** to delete the file to restore default user status.

[Example]

Show the user information stored in system:

Raisecom#**show user**

User name   priority   Server

Raisecom   15   local

Abc   15   10.0.0.1

[Related commands]

Commands	Description
user	Set up the user information.
user privilege	Set the privilege of user.

1.22 show version

[Function]

Use **show version** to show system version.

[Command Modes]

privileged configuration mode, privileged user.

[Command Executing Instruction]

Use the command to show the software and system hardware version.

[Explanation of command execution echo]

The information be shown after Bootstrap Version contains two cases:

1. UNKNOWN indicates Bootstrap main version is lower than 2.0.8;

2. Show version information in form of Bootstrap_2.0.8.ISCOM2826E.1.20060802 indicates Bootstrap version is higher than 2.0.8.

[Example]

Show system version information:

Raisecom#**show version**

RaiseCom Operating System Software

Copyright(c) 2003-2005 by Raisecom Science & Technology CO., LTD.

Product name: ISCOM2826E

ROS   Version 3.1.647.ISCOM2826E.28.20060803.(Compiled Aug   3 2006, 09:41:29)

Bootstrap   Version Bootstrap_2.0.8.ISCOM2826E.1.20060802

Hardware ISCOM2826. Version Rev.A

System MacAddress is :000e.5e11.4d0b

　　ISCOM2826 with

　　64M   bytes   DRAM

8 M   bytes   Flash Memory

Switch uptime is 0 days, 0 hours, 36 minutes

1.23 upload

[Function]

Use the command to upload configuration file of system or system-boot file to ftp or tftp server.

[Command Format]

upload *{system-boot | startup-config} {tftp |ftp}*

[Parameter]

system-boot: file to boot system

startup-config: file to configure system

ftp: use ftp protocol to download

tftp: use tftp protocol to download.

[Command Modes]

Privileged EXEC, privileged user

[Command Executing Instruction]

Use the command to upload system configuration file or system boot file to ftp server or tftp server as a backup file. The command can use different transfer protocols to download and support ftp protocol and tftp protocol now. Before use the command, ftp server and tftp server should be configured beforehand and switch system is connected to the server for sure.

[Explanation of command execution echo]

Read error.

Error occurred when reading from the server

Invalid input tftp protocol port.

Error occurred when input invalid protocol port number

Invalid input file name

Invalid file name

User name is empty!

User password is empty!

[Example]

Use ftp protocol download system boot file from ftp server:

Raisecom# **upload system-boot** *ftp*

Please input server IP Address:1.0.0.1

Please input FTP User name:test

Please input FTP Password:test

Please input FTP Server File Name:system_boot.Z

Use tftp protocol to download startup file from tftp server:

Raisecom# **upload startup-config** *tftp*

Please input server IP Address:1.0.0.1

Please input TFTP port(default 69):

Please input TFTP Server File Name:start_config.conf

[Related commands]

Commands	Description
download	Download configuration file or startup file of system.

1.24 user

[Function]

Add user and set the password of the user.

Use the command of **no user** to delete user.

[Command Format]

user *USERNAME* **password** *{no-encryption | md5} PASSWORD*

no user *USERNAME*

[Parameter]

USERNAME: username

password: password

md5: password with MD5 encryption

PASSWORD: password information.

[Default]

The default priority for adding a user is 15.

Use **user privilege** command to change the priority of user.

The user's default enable password is 123 added by the command, **enable password** is used to change password.

[Command Modes]

Privileged EXEC, privileged user (Priority 15)

[Command Executing Instruction]

There is at least one user whose priority is 15 in system user database.

Only users whose priority is 15 can use the command.

[Explanation of command execution echo]

You have no enough right to change user information!

This echo shows when privileged user whose priority is not 15 tries to create a new user. Only 15-priority users can perform this command.

Set successfully!

Set unsuccessfully!

[Example]

Add a user whose ID is abc and password is 123:

Raisecom# **user name** *abc* **password** *123*

Delete a user whose ID is abc:

Raisecom# **no user** *abc*

[Related commands]

Commands	Description
hostname	Change hostname specified by special user.
user name *USERNAME* **privilege**	Change the priority of user
enable password	Change the password of user enable
password	Change the password of current user

1.25 user login

[Function]

Set the login mode for authentication.

[Command Format]

user login *{ local-user | radius-user | local-radius | radius-local }*

[Parameter]

local-user: Use local configuration file to authenticate user.

radius-user: User RADIUS server to authenticate user.

local-radius: use local configuration file to check login user, do not need to login RADIUS server to get authentication once more.

radius-local: should pass RADIUS server authentication, do not need to login local configuration file to get the authentication once more.

[Default]

Local configuration file is used by default.

[Command Modes]

Privileged EXEC, privileged user (priority 15)

[Command Executing Instruction]

Based on RADIUS authentication, user is "ENABLE" and password is 123, hostname is Raisecom, tip is Enter keyboard by default, default priority is 15.

[Explanation of command execution echo]

Set User Login Method unsuccessfully.

Set User Login Method successfully.

[Example]

Set local-user as the authentication type of login:

Raisecom# **user login** *local-user*

[Related commands]

Commands	Description
radius *host*	Set RADIUS authentication IP server address.
radius-key	Set the shared key for RADIUS authentication server and client PC.

1.26 user name privilege

[Function]

Use **user name privilege** command to set the user priority for particular user.

[Command Format]

user name *USERNAME* **privilege** *<1-15>*

[Parameter]

USERNAME: user name;

<1-15>: user privilege.

[Default]

Default user priority is 15.

[Command Modes]

Privileged configure mode; privileged user (Only the user with priority 15 can apply this command).

[Command Executing Instruction]

Use this command when it's needed to limit the user priority for particular user, if the user priority is less than 5, it will change to normal user. Users are disabled to change the priority of the users who have already login.

[Explanation of command execution echo]

Set successfully.

can not change user privilege !

You have no enough right to change user information !

[Example]

Set the user priority of user abc to 4:

Raisecom# **user name** *abc* **privilege** *4*

[Related commands]

Commands	Description
user	Add user and set user password.
show user	Show user information.

1.27 write

[Function]

The command is used to save configuration information of current system.

[Command Format]

write *[schedule-list list-no]*

[Parameter]

schedule-list: set the starting time, ending time and time interval of schedule;

list-no: schedule list range is<0-99>.

[Command Modes]

Privileged EXEC, privileged user

[Command Executing Instruction]

Use the command to save configuration information of current system, then the saved system command will be executed automatically after reset the system, a new configuration of the switch is not needed.

[Explanation of command execution echo]

Save current configuration successfully!

Save current configuration Fail!

[Example]

Current configuration information saved by system:

Raisecom#**write**

[Related commands]

Commands	Description
show startup-config	Show startup configuration of system.
download	Download configuration file or startup file of system.
upload	Upload configuration file or startup file of system.
erase	Delete referenced files in system